

Title (en)

Memory access collision avoidance scheme

Title (de)

Verfahren und Vorrichtung zur Vermeidung von Speicherzugriffskonflikten

Title (fr)

Dispositif et procédé pour éviter des collisions d'accès mémoire

Publication

EP 1406265 A1 20040407 (EN)

Application

EP 02368107 A 20021002

Priority

EP 02368107 A 20021002

Abstract (en)

The method involves utilizing a clock signal from a serial interface (110), and an original read strobe signal from a read device for asynchronous read access to a single port RAM (120). A single modified read strobe signal is generated for the asynchronous read access to the RAM such that simultaneous access of read and write operation is avoided, whenever serial write and the asynchronous read access occurs. An independent claim is also included for avoiding access collision during read and write operations to a single-port RAM.

IPC 1-7

G11C 7/22; **G11C 8/16**

IPC 8 full level

G06F 12/00 (2006.01); **G06F 12/14** (2006.01); **G09G 3/20** (2006.01); **G09G 3/36** (2006.01); **G09G 5/00** (2006.01); **G11C 7/10** (2006.01); **G11C 7/22** (2006.01)

CPC (source: EP KR US)

G06F 12/14 (2013.01 - KR); **G11C 7/1075** (2013.01 - EP US); **G11C 7/22** (2013.01 - EP US)

Citation (search report)

- [X] US 5001671 A 19910319 - KOO JAMES T [US], et al
- [X] US 6459650 B1 20021001 - LIN JEFFREY [US]
- [A] US 6134154 A 20001017 - IWAKI HIROAKI [JP], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 489 (P - 1799) 12 September 1994 (1994-09-12)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

EP 1406265 A1 20040407; **EP 1406265 B1 20070103**; AT E350752 T1 20070115; DE 60217346 D1 20070215; DE 60217346 T2 20071004; JP 2004171522 A 20040617; KR 101013425 B1 20110214; KR 20040030381 A 20040409; US 2004068633 A1 20040408; US 6915400 B2 20050705

DOCDB simple family (application)

EP 02368107 A 20021002; AT 02368107 T 20021002; DE 60217346 T 20021002; JP 2003344204 A 20031002; KR 20030068804 A 20031002; US 27706602 A 20021021